

STATE OF TENNESSEE DEPARTMENT OF HEALTH **ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL Lab Services - Jackson Regional Lab Jackson, TN 38301 731-426-0686

TDH: Lab Services KRL Lab Services - Knoxville Regional Lab Knoxville, TN 37920 865-549-5201

TDH: Lab Services NCL Lab Services - Nashville Central Lab Nashville, TN 37243 615-262-6300

Sent To:

Greg Denton

TDEC-WPC

6th Floor, L & C Tower Annex

401 Church Street

Nashville, TN 37243-1534

Michael Atchley

TDEC-WPC Knoxville FO

3711 Middlebrook Pike

Knoxville, TN 37921

Lab ID: K00002194

Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code:

327.34-20

This is to certify that the following results were determined using good laboratory pratices and in accordance with federal or state approved methodologies.

Analytical Supervisor

K00002194001

Project Name:

TVA-Ash Spill

Sample Description:

Sampler Project Name: TVA Ash Spill

Emory River mile 12.1

Project Site No.:

Station No.:

EMORY012.1RO

Date/Time Collected: Sampler's Name:

03/03/2009 09:37

County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO:

Knoxville

Sampling Agency: **Billing Code:**

TDEC-WPC 327.34-20

Send Report To: Agency Invoiced:

TDEC-WPC TDEC-WPC

Priority Date:

03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

pH:

7.74

pH Units

Chlorine, residual:

Conductivity:

42

uMHO

Temperature: Dissolved Oxygen: 13.42

6.33

mg/L

Other:

Flow:

CFS

TEST: Alkalinity, Total	ME	THOD: EPA 31	0.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	10	mg/L	3.8	10	M Chen	3/6/2009

TEST: Hardness, Calcium	ME.	THOD: SM 350	0-Ca D			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	18	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable METHOD: SM 2540F							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009	

TEST: Residue, Suspended	METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	3/6/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194002

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 2.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

EMORY002.1RO

Date/Time Collected:

03/03/2009 10:58

Sampler's Name: County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville

Billing Code: Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced: **Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

:Hq

7.20

pH Units

Chlorine, residual:

Conductivity:

47

uMHO

CFS

Temperature:

5.82 Dissolved Oxygen: 12.94

mg/L

Other:

Flow:

TEST: Alkalinity, Total METHOD: EPA 310.2						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	14	mg/L	3.8	10	M Chen	3/6/2009

TEST: Hardness, Calcium	ME.	THOD: SM 350	0-Ca D		:	
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	17	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable METHOD: SM 2540F							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009	

MET	ГНОD: SM 254				
RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
U	mg/L	10	10	A Peeples	3/6/2009
		RESULT UNITS	7,20021	RESULT UNITS MDL MQL	RESULT UNITS MDL MQL ANALYZED BY:

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194003

Project Name:

TVA-Ash Spill

Sample Description:

Sampler Project Name: TVA Ash Spill

Emory River mile 1.7

Project Site No.:

Station No.:

EMORY001.7RO

Date/Time Collected: Sampler's Name:

03/03/2009 11:14

County:

Justin Fisher **ROANE - 73**

Sample Matrix:

Water

EFO:

Knoxville

Sampling Agency: Billing Code:

TDEC-WPC 327.34-20

Send Report To: **Agency Invoiced:**

TDEC-WPC TDEC-WPC

Priority Date:

03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

pH:

7.17

pH Units

Chlorine, residual:

Conductivity:

43

uMHO

Temperature: **Dissolved Oxygen: 12.53**

6.04

mg/L

Other:

Flow:

CFS

TEST: Alkalinity, Total	ME.					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	3/6/2009

TEST: Hardness, Calcium	ME.	THOD: SM 350	0-Ca D	1		
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	17	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable	ME.	THOD: SM 254	0F			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009

TEST: Residue, Suspended	METHOD: SM 2540D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	3/6/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194004

Project Name:

TVA-Ash Spill

Sample Description:

Sampler Project Name: TVA Ash Spill

Emory River mile 1.7 Field Duplicate

Project Site No.:

Station No.:

Date/Time Collected:

EMORY001.7RO-FD 03/03/2009 11:14

Sampler's Name:

Justin Fisher

County: **Sample Matrix:** ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville

Billing Code: Send Report To: TDEC-WPC 327.34-20 TDEC-WPC

Agency invoiced: **Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

pH:

7.16

pH Units

Chlorine, residual:

Conductivity:

43 6.06

uMHO

Temperature:

Dissolved Oxygen: 12.54

mg/L

Other:

Flow:

CFS

FEST: Alkalinity, Total METHOD: EPA 310.2							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Total Alkalinity	12	mg/L	3.8	10	M Chen	3/6/2009	

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	14	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable METHOD: SM 2540F							
ANALYTE	RESULT UNITS !		MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009	

TEST: Residue, Suspended	METHOD: SM 2540D						
ANALYTE	RESULT UNITS MD		MDL	MQL	ANALYZED BY:	DATE	
Total Suspended Solids	U	mg/L	10	10	A Peeples	3/6/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194005

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 1.7 Field Blank

Sampler Project Name: TVA Ash Spill

Project Site No.:

3

Station No.:

EMORY001.7RO-FB

Date/Time Collected:

03/03/2009 11:14

Sampler's Name:

Justin Fisher

County: Sample Matrix: ROANE - 73

Water

EFO:

Knoxville

Sampling Agency: **Billing Code:**

TDEC-WPC 327.34-20 TDEC-WPC

Send Report To: **Agency Invoiced: Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations pH:

Chlorine, residual:

Conductivity: Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

TEST: Alkalinity, Total	METHOD: EPA 310.2							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE		
Total Alkalinity	U	mg/L	3.8	10	M Chen	3/6/2009		

TEST: Hardness, Calcium METHOD: SM 3500-Ca D						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	U	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Suspended METHOD: SM 2540D						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	3/6/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194006

Project Name:

TVA-Ash Spill

Sample Description:

Sampler Project Name: TVA Ash Spill

Emory River mile 0.1

Project Site No.:

Station No.:

EMORY000.1RO

Date/Time Collected:

03/03/2009 11:33

Sampler's Name: County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC

Billing Code: Send Report To: 327.34-20 TDEC-WPC

Agency Invoiced: Priority Date:

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

pH:

7.26

pH Units

Chlorine, residual:

Conductivity:

59

uMHO

Temperature:

6.80

Dissolved Oxygen: 12.33

mg/L

Other:

Flow:

CFS

TEST: Alkalinity, Total	ME.	METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	24	mg/L	3.8	10	M Chen	3/6/2009

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	22	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable METHOD: SM 2540F							
ANALYTE	RESULT UNITS MDL		MDL	MQL	ANALYZED BY:	DATE	
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009	

TEST: Residue, Suspended METHOD: SM 2540D						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	3/6/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194007

Project Name:

TVA-Ash Spill

Sample Description:

Clinch River mile 2.3 near Hwy 70 bridge

Sampler Project Name: TVA Ash Spill

Project Site No.:

5

Station No.:

CLINC002.3RO

Date/Time Collected:

03/03/2009 11:48

Sampler's Name: County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC

Billing Code: Send Report To:

327.34-20 TDEC-WPC TDEC-WPC

Agency Invoiced: **Priority Date:**

03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

:Ha

7.81

pH Units

uMHO

Chlorine, residual:

Conductivity: Temperature:

158

8.19

Dissolved Oxygen: 12.18

mg/L

Other:

Flow:

CFS

TEST: Alkalinity, Total METHOD: EPA 310.2 **ANALYTE** MDL MQL **RESULT** UNITS **ANALYZED BY:** DATE **Total Alkalinity** 80 mg/L 3.8 10 M Chen 3/6/2009

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	60	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable	METHOD: SM 2540F					Residue, Settleable METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE				
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009				

TEST: Residue, Suspended						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	3/6/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194008

Project Name:

TVA-Ash Spill

Field Determinations pH:

7.95

pH Units

Sample Description: Sampler Project Name: TVA Ash Spill

Clinch River mile 4.5 near Sugar Grove Valley F Chlorine, residual:

Conductivity:

209

uMHO

CFS

Project Site No.:

7.97

Station No.:

Temperature:

Date/Time Collected:

CLINC004.5RO 03/03/2009 12:01 **Dissolved Oxygen: 11.88**

mg/L

Sampler's Name:

Justin Fisher

Other: Flow:

County:

ROANE - 73

Sample Matrix:

Water

EFO:

Knoxville

Sampling Agency: Billing Code:

TDEC-WPC 327.34-20 TDEC-WPC

Send Report To: **Agency Invoiced:**

TDEC-WPC 03/13/2009

Priority Date: Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

TEST: Alkalinity, Total	METHOD: EPA 310.2						
ANALYTE	RESULT	UNITS	MDL.	MQL	ANALYZED BY:	DATE	
Total Alkalinity	140	mg/L	3.8	10	M Chen	3/6/2009	

TEST: Hardness, Calcium	METHOD: SM 3500-Ca D					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	89	mg/L	0.7	1	M Chen	3/6/2009

TEST: Residue, Settleable	METHOD: SM 2540F							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE		
Settleable Residue	<0.1	ml/L	0.10	0.10	P Leathers	3/4/2009		

TEST: Residue, Suspended	due, Suspended METHOD: SM 2540D							
ANALYTE		RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Total Suspended Solids		U	mg/L	10	10	A Peeples	3/6/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit



STATE OF TENNESSEE DEPARTMENT OF HEALTH **ENVIRONMENTAL LABORATORIES**

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TDH: Lab Services KRL Lab Services - Knoxville Regional Lab Knoxville, TN 37920 865-549-5201

TDH: Lab Services NCL Lab Services - Nashville Central Lab Nashville, TN 37243 615-262-6300

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TDEC-WPC

6th Floor, L & C Tower Annex

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Nashville, TN 37243-1534

Michael Atchley TDEC-WPC

Knoxville FO

3711 Middlebrook Pike

Knoxville, TN 37921

Lab ID: K00002194

Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code:

327.34-20

This is to certify that the following results were determined using good laboratory pratices and in accordance with federal or state approved methodologies.

Analytical Supervisor

K00002194001

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 12.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

1

Station No.:

EMORY012.1RO

Date/Time Collected:

03/03/2009 09:37

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

EFO:

Water Knoxville

Sampling Agency: **Billing Code:** Send Report To:

TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced: **Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009

15:50

Received By:

E McCrary

Field Determinations

pH:

7.74

pH Units

Chlorine, residual:

Conductivity:

42

uMHQ

mg/L

Temperature:

6.33

Dissolved Oxygen: 13.42 Other:

Flow:

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	03/04/2009				A Bass	3/4/2009	

TEST: ICP	METHOD: EPA 200.7						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
iron	150	μg/L	2.9	10	M Pattanayek	3/5/2009	

TEST: ICP-MS	ME	THOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	100	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	24	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	2.7J	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.23J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	1.2	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	0.18J	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	21	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.0	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.20J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	6.8	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194001

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 12.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

EMORY012.1RQ

Date/Time Collected:

03/03/2009 09:37

Sampler's Name: County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water Knoxville

Sampling Agency: **Billing Code:**

TDEC-WPC 327.34-20

Send Report To: Agency Invoiced:

TDEC-WPC TDEC-WPC

Priority Date: Date/Time Received: 03/13/2009

Received By:

03/03/2009 15:50

E McCrary

Field Determinations

pH:

7.74

pH Units

uMHO

Chlorine, residual:

Conductivity: Temperature: 42

6.33

Dissolved Oxygen: 13.42

mg/L

Other:

Flow:

CFS

TEST: Mercury	METHOD: EPA 245.1						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	U	μg/L	0.13	0.2	A Wilson	3/5/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194002

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 2.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.: EMORY002.1RO Date/Time Collected:

Sampler's Name:

03/03/2009 10:58 Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC 327.34-20

Billing Code: Send Report To: Agency Invoiced:

TDEC-WPC TDEC-WPC

Priority Date: Date/Time Received: 03/13/2009

03/03/2009

15:50

Received By:

E McCrary

Field Determinations pH: 7.20 pH Units Chlorine, residual: 47 uMHO

Conductivity:

Temperature:

5.82

Dissolved Oxygen: 12.94 mg/L

Other:

Flow:

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	03/04/2009				A Bass	3/4/2009	

TEST: ICP	METHOD: EPA 200.7							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE		
Iron	260	μg/L	2.9	10	M Pattanayek	3/5/2009		

TEST: ICP-MS	ME					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	200	μg/L	12.8	20	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	28	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	2.5J	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.34J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	1.6	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	0.39J	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	38	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.3	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.15J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	9.8	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194002

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 2.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

2

Station No.:

EMORY002.1RO

Date/Time Collected:

03/03/2009 10:58

Sampler's Name: County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC

Billing Code: Send Report To: Agency Invoiced: 327.34-20 TDEC-WPC TDEC-WPC

Priority Date:

03/13/2009

Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

pH:

7.20

pH Units

uMHO

Chlorine, residual:

Temperature:

Conductivity:

Dissolved Oxygen: 12.94

47

5.82

mg/L

Other:

Flow:

CFS

TEST: Mercury METHOD: EPA 245.1							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	Ū	μg/L	0.13	0.2	A Wilson	3/5/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194003

Project Name:

TVA-Ash Spill Emory River mile 1.7

Sample Description: Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

EMORY001.7RO

Date/Time Collected: Sampler's Name:

03/03/2009 11:14

County:

Justin Fisher ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency: Billing Code:

Knoxville TDEC-WPC 327.34-20

Send Report To: Agency Invoiced: **Priority Date:**

TDEC-WPC TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

pH:

7.17 Chlorine, residual:

43

uMHO

pH Units

Conductivity: Temperature:

6.04

Dissolved Oxygen: 12.53 mg/L

Other:

Flow:

TEST: Digestion Metals	MET					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	03/04/2009				A Bass	3/4/2009

TEST: ICP	ME.	METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	290	μg/L	2.9	10	M Pattanayek	3/5/2009

TEST: ICP-MS	MET	THOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	190	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	26	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	2.3J	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.34J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	0.68J	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	0.30J	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	34	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.2	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.09J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	3.0J	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194003

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 1.7

Sampler Project Name: TVA Ash Spill

Project Site No.:

3

Station No.:

EMORY001.7RO

Date/Time Collected:

03/03/2009 11:14

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

EFO:

Water

Sampling Agency: **Billing Code:**

Knoxville TDEC-WPC

Send Report To: Agency Invoiced: 327.34-20 TDEC-WPC TDEC-WPC

Priority Date:

03/13/2009

Date/Time Received: Received By:

03/03/2009

15:50

E McCrary

Field Determinations

pH:

7.17

pH Units

Chlorine, residual:

Conductivity:

43

uMHQ

Temperature:

6.04

Dissolved Oxygen: 12.53

mg/L

Other:

Flow:

CFS

TEST: Mercury	METHOD: EPA 245.1						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	U	μg/L	0.13	0.2	A Wilson	3/5/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194004

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 1.7 Field Duplicate

Project Site No.:

Sampler Project Name: TVA Ash Spill

3

Station No.: EMORY001.7RO-FD

Date/Time Collected:

03/03/2009

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix: EFO:

Water Knoxville TDEC-WPC

Sampling Agency: **Billing Code:** Send Report To: **Agency Invoiced:**

327.34-20 TDEC-WPC TDEC-WPC

Date/Time Received:

03/13/2009

03/03/2009 15:50

Received By:

Priority Date:

E McCrary

Field Determinations

pH:

7.16

pH Units

Chlorine, residual:

Conductivity:

43

uMHO

Temperature:

6.06

Dissolved Oxygen: 12.54

mg/L

Other:

Flow:

TEST: Digestion Metals	0.2					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	03/04/2009				A Bass	3/4/2009

TEST: ICP	ME	THOD: EPA 20	0.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	280	μg/L	2.9	10	M Pattanayek	3/5/2009

TEST: ICP-MS	ME	THOD: EPA 200	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	190	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	Ŭ	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	26	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	2.0J	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.34J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	1.4	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	0.35J	μg/L	0.10	. 1	M Pattanayek	3/5/2009
Manganese	33	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.3	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.08J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	6.9	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194004

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 1.7 Field Duplicate

Sampler Project Name: TVA Ash Spill

15:50

Project Site No.:

3

Station No.:

EMORY001.7RO-FD

Date/Time Collected:

03/03/2009

Sampler's Name:

Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency:

Knoxville TDEC-WPC

Billing Code: Send Report To: 327.34-20 TDEC-WPC TDEC-WPC

Agency Invoiced: **Priority Date:**

03/13/2009

Date/Time Received:

03/03/2009

Received By:

E McCrary

Field Determinations

pH:

7.16

pH Units

Chlorine, residual: Conductivity:

Dissolved Oxygen: 12.54

43

uMHO

Temperature:

6.06

mg/L

Other:

Flow:

CFS

TEST: Mercury	METHOD: EPA 245.1						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	U	μg/L	0.13	0.2	A Wilson	3/5/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194005

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 1.7 Field Blank

Project Site No.:

Sampler Project Name: TVA Ash Spill

Station No.:

3

EMORY001.7RO-FB

Date/Time Collected: Sampler's Name:

03/03/2009

County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO:

Water

Sampling Agency: Billing Code: Knoxville TDEC-WPC

Send Report To:
Agency Invoiced:

327.34-20 TDEC-WPC TDEC-WPC

Priority Date:
Date/Time Received:

03/13/2009

Date/ I Ime Receiv

03/03/2009

15:50

Received By:

E McCrary

Other:

Flow:

pH:

Field Determinations

Chlorine, residual:

Dissolved Oxygen:

Conductivity:

Temperature:

TEST: Digestion Metals	MET					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	03/04/2009		_		A Bass	3/4/2009

TEST: ICP	MET	ΓHOD: EPA 20	0.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	U	μg/L	2.9	10	M Pattanayek	3/5/2009

TEST: ICP-MS	MET	THOD: EPA 200	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	U	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	U	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	2.0J	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	U	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	U	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	U	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	U	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	U	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.05J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	Ü	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194005

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 1.7 Field Blank

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

EMORY001.7RO-FB

Date/Time Collected: Sampler's Name:

03/03/2009 Justin Fisher

County:

ROANE - 73

Sample Matrix:

EFO: Sampling Agency: Water Knoxville TDEC-WPC

Billing Code: Send Report To: Agency Invoiced: 327.34-20 **TDEC-WPC** TDEC-WPC

Priority Date:

03/13/2009

Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

pH:

Chlorine, residual: Conductivity: Temperature: **Dissolved Oxygen:**

Other:

Flow:

CFS

TEST: Mercury	METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	μg/L	0.13	0.2	A Wilson	3/5/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194006

Project Name:

TVA-Ash Spill

Sample Description: Sampler Project Name: TVA Ash Spill

Emory River mile 0.1

Project Site No.:

Station No.:

Date/Time Collected:

EMORY000.1RO

Sampler's Name:

03/03/2009 11:33 Justin Fisher

County:

ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency: **Billing Code:** Send Report To:

Knoxville TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced: **Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

7.26 pH:

Chlorine, residual:

Conductivity:

59 Temperature:

6.80

uMHO

pH Units

Dissolved Oxygen: 12.33

mg/L

Other: Flow:

TEST: Digestion Metals METHOD: EPA 200.2							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	03/04/2009				A Bass	3/4/2009	

TEST: ICP METHOD: EPA 200.7						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	220	μg/L	2.9	10	M Pattanayek	3/5/2009

TEST: ICP-MS	ME	THOD: EPA 20	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	150	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	27	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.31J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	1.1	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	` 0.28J	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	38	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.2	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.05J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	6.4	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194006

Project Name:

TVA-Ash Spill

Sample Description:

Emory River mile 0.1

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

EMORY000.1RO

Date/Time Collected:

03/03/2009 11:33

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville TDEC-WPC

Billing Code: Send Report To: Agency Invoiced:

327.34-20 TDEC-WPC TDEC-WPC 03/13/2009

Priority Date: Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

pH:

7.26

pH Units

Chlorine, residual:

Conductivity:

59

uMHO

Temperature: Dissolved Oxygen: 12.33

6.80

mg/L

Other:

Flow:

CFS

TEST: Mercury METHOD: EPA 245.1						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	Ü	μg/L	0.13	0.2	A Wilson	3/5/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194007

Project Name: Sample Description: TVA-Ash Spill Clinch River mile 2.3 near Hwy 70 bridge

15:50

Sampler Project Name: TVA Ash Spill

Project Site No.:

5

Station No.: Date/Time Collected:

CLINC002.3RO 03/03/2009 11:48

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix: EFO:

Water

Sampling Agency: **Billing Code:**

Knoxville TDEC-WPC 327.34-20 TDEC-WPC

Send Report To: Agency Invoiced: **Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009

Received By:

E McCrary

Field Determinations

pH:

7.81

pH Units

Chlorine, residual:

Conductivity:

158 8.19 uMHO

Temperature:

Dissolved Oxygen: 12.18

mg/L

Other:

Flow:

TEST: Digestion Metals	MET					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	03/04/2009				A Bass	3/4/2009

TEST: ICP	ME	THOD: EPA 20	0.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	250	μg/L	2.9	10	M Pattanayek	3/5/2009

TEST: ICP-MS	, ME	THOD: EPA 200	0.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	33	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.29J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	1.9	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	0.35J	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	37	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.4	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.06J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	3.6J	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	4.1J	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194007

Project Name:

TVA-Ash Spill

Sample Description:

Clinch River mile 2.3 near Hwy 70 bridge

Sampler Project Name: TVA Ash Spill

Project Site No.: Station No.:

CLINC002.3RQ

Date/Time Collected:

03/03/2009 11:48

Sampler's Name: County:

Justin Fisher ROANE - 73

Sample Matrix:

Water

EFO: Sampling Agency: Knoxville TDEC-WPC

Billing Code: Send Report To:

Agency Invoiced:

327.34-20 TDEC-WPC TDEC-WPC

Priority Date:

03/13/2009

Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

7.81 pH:

Chlorine, residual:

Conductivity:

158 8.19 uMHQ

pH Units

Temperature: Dissolved Oxygen: 12.18 mg/L

Other:

Flow:

CFS

TEST: Mercury	ME	THOD: EPA 24	5.1			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	μg/L	0.13	0.2	A Wilson	3/5/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

K00002194008

Project Name:

TVA-Ash Spill

Sample Description:

Sampler Project Name: TVA Ash Spill

Project Site No.:

Station No.:

CLINC004.5RO

Date/Time Collected:

Sampler's Name:

03/03/2009 12:01

County:

Justin Fisher

Sample Matrix:

ROANE - 73

EFO: Sampling Agency: Water Knoxville

Billing Code: Send Report To:

TDEC-WPC 327.34-20 TDEC-WPC

Agency Invoiced: **Priority Date:**

TDEC-WPC 03/13/2009

Date/Time Received:

03/03/2009 15:50

Received By:

E McCrary

Field Determinations

pH:

7.95

pH Units

Clinch River mile 4.5 near Sugar Grove Valley R Chlorine, residual:

Conductivity:

209

uMHO

Temperature: Dissolved Oxygen: 11.88

7.97

mg/L

Other: Flow:

TEST: Digestion Metals	METHOD: EPA 200.2						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Digestion Metals	03/04/2009				A Bass	3/4/2009	

TEST: ICP	METHOD: EPA 200.7						
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Iron	200	μg/L	2.9	10	M Pattanayek	3/5/2009	

TEST: ICP-MS	METHOD: EPA 200.8					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	130	μg/L	6.4	10	M Pattanayek	3/5/2009
Antimony	U	μg/L	0.33	1	M Pattanayek	3/5/2009
Arsenic	U	μg/L	0.93	5	M Pattanayek	3/5/2009
Barium	35	μg/L	2.5	5	M Pattanayek	3/5/2009
Beryllium	U	μg/L	0.11	1	M Pattanayek	3/5/2009
Cadmium	· U	μg/L	0.41	1	M Pattanayek	3/5/2009
Chromium	U	μg/L	2.0	5	M Pattanayek	3/5/2009
Cobalt	0.20J	μg/L	0.04	1	M Pattanayek	3/5/2009
Copper	1.5	μg/L	0.38	1	M Pattanayek	3/5/2009
Lead	0.31J	μg/L	0.10	1	M Pattanayek	3/5/2009
Manganese	32	μg/L	0.42	1	M Pattanayek	3/5/2009
Nickel	1.6	μg/L	0.25	1	M Pattanayek	3/5/2009
Selenium	U	μg/L	1.3	5	M Pattanayek	3/5/2009
Silver	U	μg/L	0.03	0.25	M Pattanayek	3/5/2009
Thallium	0.05J	μg/L	0.03	1	M Pattanayek	3/5/2009
Vanadium	U	μg/L	3.4	5	M Pattanayek	3/5/2009
Zinc	3.2J	μg/L	1.9	5	M Pattanayek	3/5/2009

K00002194008

Project Name:

TVA-Ash Spill

Sample Description:

Clinch River mile 4.5 near Sugar Grove Valley R Chlorine, residual:

Sampler Project Name: TVA Ash Spill

Project Site No.: Station No.:

Date/Time Collected:

CLINC004.5RO

Sampler's Name:

03/03/2009 12:01

County:

Justin Fisher

ROANE - 73

Sample Matrix: EFQ:

Water

Sampling Agency: **Billing Code:**

Knoxville TDEC-WPC 327.34-20

Send Report To: Agency Invoiced: **Priority Date:**

TDEC-WPC TDEC-WPC

Date/Time Received:

03/13/2009 03/03/2009

15:50

Received By:

E McCrary

Field Determinations

pH:

7.95

pH Units

uMHO

Conductivity:

209

7.97

Temperature: Dissolved Oxygen: 11.88

mg/L

Other:

Flow:

CFS

TEST: Mercury METHOD: EPA 245.1							
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	U	μg/L	0.13	0.2	A Wilson	3/5/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit